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Outside North America:
Tel: +44 (0)1494 446000
Fax: +44 (0)1494 461024
support@chroma-q.com

North America:
Tel: +1 416-255-9494
Fax: +1 416-255-3514
support@chroma-q.com

For further information please visit the Chroma-Q website at www.chroma-q.com.

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Quick Start Guide
M5 Plus™

Chroma-Q™

For a full product manual please visit www.chroma-q.com

M5 Plus Quick Start Guide V1.0
PN: 113-0500

1. Product Description

The Chroma-Q M5 Plus is a colour changer which is compatible with lighting fixtures of up to 383mm x 457mm /15" x 18" rectangular aperture (15" circular aperture) and a choice of mounting plates. The unit provides control of a user customised internal gel string containing 2 to 16 frames.

Note: The quantity of Chroma-Q M5 Plus is dependent on the size of PSU/Splitter.

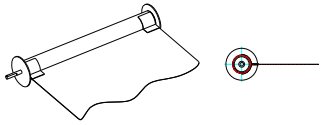
2. Operation

Loading Gel String: (See Fig. 1)

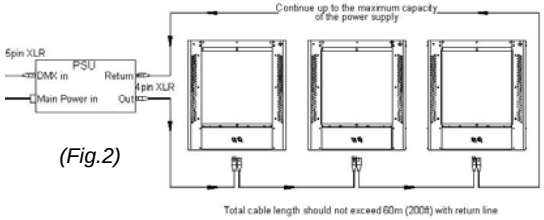
1. Unscrew, remove front cover and place unit on a flat surface with motor/fan/electronics on your right-hand side (assuming you're loading from 'tail' end of the string, reverse if starting from 'leader' end of the string).
2. Tape the top and bottom edge of tail end of the gel string to the Take Up Reel. Follow the centre line guide scribed on the TUR.
3. Wind the gel string on the TUR manually and thereafter, gently pull the string towards you to tighten the roll.
4. Rotate the unit to position motor/fan/electronics on your left-hand side.
5. Tape the top and bottom edge of leader end of the gel string to the TUR. Follow the centre line guide scribed on the TUR.
6. Roll manually some of the gel string onto the TUR to check if seated correctly.
7. Plug in the unit, and check that it goes through the initialisation sequence correctly. Gel string must run smoothly and should not bind up on the TUR's.
8. Run test sequences for a few minutes (or 3 to 4 times, end to end) to allow the gel string to 'bed' in. The unit does not have to be attached to a fixture.

Note:

- For normal operation, the start (leader) of the gel string is on the left-side TUR and the end (tail) of the string is on the right side TUR, when viewed from the front.
- Connect and power-up colour changer first before turning lights on. The fan must be running to protect gels from premature failure.
- High fan speed is recommended on all fixtures of 2000 Watts and above.
- Poorly optimised light bulbs may result in premature gel failure.



(Fig.1)



(Fig.2)

Control and Power Cables: (See Fig. 2)

Connect power and control data from the power supply unit through the XLR 4-pin cable system. Pins 2 and 3 are for ANSI E1.11 USITT DMX 512-A control protocol. Pins 1(-) and 4(+) are for 24V DC power. For daisy chaining, the XLR-4 cable should be run from the output connector on the unit to the next device in the chain. Total cable length must not exceed more than 60m (~200ft.) with return line. Signal input is a male XLR chassis connector and output is a female XLR chassis connector.

Display and Control Functions:

Control functions at the bottom panel use LED display with 3 push-button switches.

Control	Function
MENU button	Mode access, 'Record' and 'Exit'
DOWN button	Decreases (-) the mode level, or value
UP button	Increases (+) the mode level, or value
3 digit display	Displays modes, monitor, or blank display

1. **Power-up Display**: on power-up, the unit self-calibrates and display shows the software version. When complete, display shows DMX address mode.
2. **Monitor Display**: if left undisturbed for 5-7 sec, display will revert to 'Monitor Mode'.
3. **Display Flip**: press MENU and DOWN button simultaneously.
4. **Display Mode**: to set auto-blackout after 12 seconds, select through mode menu under 'dP' and choose between 'dP0' is OFF and 'dP1' is ON.
5. **Reset 'rES'**: press and hold for 1 second the MENU and UP button to reset to Factory default settings.

Modes of Operation:

1. **DMX addressing mode**: press UP or DOWN once to increment or decrement the value. Display shows the current DMX address between 1-512. The unit can be set for 1 or 2 DMX channels reference to the mode it is operating with. (see below)
2. **Fan speed mode 'Fn'**: press MENU and UP or DOWN to select mode, and select between four fan speeds, '**Fn1**' is the slowest and '**Fn4**' is the fastest.
3. **Gel saver mode 'GL'**: press MENU and UP or DOWN to select mode, and select between Off '**GL0**' (default) and On '**GL1**'. press and hold MENU for 2 seconds to save new setting. This feature slowly moves the chosen gel frame back and forward to dissipate heat build-up over a larger area, extending the life of the gel string.
4. **Speed mode 'SP'**: to set scrolling speed, press MENU and UP or DOWN to select mode and, select between Standard '**SP1**' (default) and Fast '**SP2**'. Press and hold MENU for 2 seconds to save new setting.
5. **Display mode 'dP'**: press MENU and UP or DOWN to select mode, and select between Off '**dP0**' (default) and On '**dP1**'. In '**dP1**' the display will change to diagnostic mode after 6 sec. In '**dP0**' the display will change to the diagnostic mode in 6 sec, then clear in another 6 sec, making 12 sec till auto-blackout. Display will return to diagnostic mode when first button is pressed and will do the action of the second press.
6. **Remote Operation mode 'ro'**: press MENU and UP or DOWN to select mode, and select between Mode 1 '**ro1**' – 1 ch DMX; Mode 2 '**ro2**' – 2 ch DMX; Mode 3 '**ro3**' – 2 ch DMX. In mode 2, ch 1 controls colour selection and ch 2 controls fan speed. In mode 3, ch 1 controls colour selection and ch 2 controls other functions.

Mounting:

The rear of the Chroma-Q M5 Plus has 6 reinforced mounting stands for M4 thread sleeve inserts which allows compatibility with the standard 20-Lites Blinder mounting brackets. Also available is the Universal Mounting Bracket that can be adjusted to fixture with frame size from 260mm (10-1/4") to 409.6mm (16-1/8"). The Chroma-Q M5 Plus is designed to be mounted in an upright position with the base below the fixture. **Always ensure that the safety wire is connected and in good working condition.**

3. Further Information

Please refer to the Chroma-Q M5 Plus manual for more detailed information. A copy of the manual can be found at the Chroma-Q website – www.chroma-q.com – under Support.